

SPECIFIC WEIGHTS OF SOME CONSTRUCTION MATERIALS

BULK BODIES	
Material designation	Weight Specific (Kg/m ³)
Uncompacted dry soil	1300
Uncompacted moist soil	1800
Saturated uncompacted soil	2100
Dry sand	1600
Wet sand	1800
Saturated sand	2100
Cal	1000
Brick rubble	1300
Loose cement	1400
Quartzite split stone	1400
Granite split stone	1600
Boulder	1700
Gypsum	1250

Masonry	
Material designation	Weight Specific (Kg/m ³)
Common bricks, lime mortar	1600
Common bricks, cement mortar	1800
Hollow bricks, lime mortar	1300
Hollow bricks, cement mortar	1500
Machine bricks, lime mortar	2000
Machine bricks, cement mortar	2200
Pressed bricks, lime mortar	1900
Pressed bricks, cement mortar	2100
Hollow lightweight concrete blocks	1300
Hollow concrete blocks	1600

Mortars	
Material designation	Specific Weight (Kg/m ³)
Cement and Sand	2100
Cement, lime and sand	1900
Lime and sand	1700
Lime, sand and brick dust	1600

Timbers	
Material designation	Weight Specific (Kg/m ³)
Flanders pine	700
American Pine	800
Pine tea	900
Spruce pine	550
White pine	550
Spruce white to red spruce	600
Live oak	950
Hazel oak	650
Red or black oak	700
White oak	750
Poplar	500

Concretes	
Material designation	Weight Specific (Kg/m ³)
Portland cement, sand and pebbles:	
Unassembled	2300
Armed	2400
Portland cement, sand and broken stone:	
Unassembled	2300
Armed	2400
Portland cement, sand and basaltic aggregate	2400
Portland cement, sand and rubble	1800
Portland cement, sand and iron ore	3600
Portland cement, sand and expanded clay	1800
Lime, sand and rubble (Poor)	1600

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Laboratory Manual of Testing Materials William Kendrick Hatt, Herbert Henry Scofield, 1913 Laboratory Manual on Testing of Engineering Materials Hamant. Sood, 2003 Primarily Written For The Students Of Civil Engineering And Practising Engineers Involved In The Testing Of Building Materials The Manual Describes In Straight Forward And Systematic Manner The Testing Of Engineering Materials Each Test Given In The Manual Outlines The Objectives Theory Apparatus Requirements Procedures Precautions Questions For Discussion And Observations And Calculations For All The Tests Specified The Procedure Is Based On The Relevant Indian Standard Code Of Practice Which Is The Usual Accepted Method Of Performing The Tests The Manual Can Be Used By Students And Field Engineers For Keeping The Record Of Tests Performed In The Laboratory Since Each Test Requires A Different Reference Of The Indian Standard Codes It May Not Be Practically Feasible In The Field Conditions And Therefore This Manual Comes Quite Handy For These Situations It Will Be Invaluable And Indispensable Manual For Imparting Effective Instructions To Diploma And Under Graduate Level Students As Also To Field Engineers **Construction Materials Manual** Manfred Hegger, Volker Auch-Schwelk, Matthias Fuchs, Thorsten Rosenkranz, 2013-02-12 Until now the few existing systematic texts on construction materials have primarily been directed at building engineers An overview for architects which also considers the importance of construction materials in the sensory perception of architecture including tactile qualities smell color and surface structure has not been available With the publication of the Construction Materials Manual all that has changed As a basic work aimed equally at the questions and perspectives of architects and building engineers it will bring together all of the above mentioned viewpoints It addresses fundamental questions of sustainability including life span environmental impact and material cycles while also presenting material innovations All of the principal conventional and innovative construction materials are comprehensively documented with attention to their production manufacture fabrication treatment surfaces connections and characteristics International examples help to illustrate their use in architecture where a building s appearance is often defined by a single material Thus the Construction Materials Manual will support the daily work of architects and engineers in the choice of construction materials in a comprehensive and at the same time vivid and stimulating manner **Laboratory Manual of Bituminous Materials for the Use of Students in Highway Engineering** Prévost Hubbard, 1916 **Laboratory Manual for the Use of Students in Testing Materials of Construction** Leslie Abram Waterbury, 1912 **Manual J - Residential Load Calculation** Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and

local jurisdictions **Earth Manual** ,1990 *Earth Manual* United States. Bureau of Reclamation,1990 **Manual of Geotechnical Laboratory Soil Testing** Bashir Ahmed Mir,2021-10-03 Manual of Geotechnical Laboratory Soil Testing covers the physical index and engineering properties of soils including compaction characteristics optimum moisture content permeability coefficient of hydraulic conductivity compressibility characteristics and shear strength cohesion intercept and angle of internal friction Further this manual covers data collection analysis computations additional considerations sources of error precautionary measures and the presentation results along with well defined illustrations for each of the listed tests Each test is based on relevant standards with pertinent references broadly aimed at geotechnical design applications

FEATURES Provides fundamental coverage of elementary level laboratory characterization of soils Describes objectives basic concepts general understanding and appreciation of the geotechnical principles for determination of physical index and engineering properties of soil materials Presents the step by step procedures for various tests based on relevant standards Interprets soil analytical data and illustrates empirical relationship between various soil properties Includes observation data sheet and analysis results and discussions and applications of test results This manual is aimed at undergraduates senior undergraduates and researchers in geotechnical and civil engineering Prof Dr Bashir Ahmed Mir is among the senior faculty of the Civil Engineering Department of the National Institute of Technology Srinagar and has more than two decades of teaching experience Prof Mir has published more than 100 research papers in international journals and conferences chaired technical sessions in international conferences in India and throughout the world and provided consultancy services to more than 150 projects of national importance to various government and private agencies *Design of Small Dams* ,1987

Soil Mechanics Laboratory Manual Braja Das,2022 Soil Mechanics Laboratory Manual Tenth Edition is designed to get dirty This ideal complement to any Geotechnical Engineering and Soil Mechanics textbook is ring bound and flexi covered so students can have it on hand at the lab bench or in the field Content is organized around standard lab project workflow It includes more than twenty five lab projects that are closely aligned to current ASTM standards followed by data sheets for collecting field data and another set for preparing laboratory reports **Introduction to Soil Mechanics Laboratory Testing** Dante Fratta,2007-05-21 A step by step text on the basic tests performed in soil mechanics Introduction to Soil Mechanics Laboratory Testing provides procedural aids and elucidates industry standards It also covers how to properly present data and document results Containing numerical examples and figures the information presented is based on American Society f Design of Small Dams United States. Bureau of Reclamation,1973 **Experiment Station Record** United States. Office of Experiment Stations,1916 Bulletin of the U.S. Department of Agriculture ,1917 **Technical Note** ,1917 The United States Catalog ,1921 **The United States Catalog; Books in Print January 1, 1912** Marion Effie Potter,1921 The United States Catalog Supplement, January 1918-June 1921 Eleanor E. Hawkins,1921 Water Systems Management Workshop Engineering and Research Center (U.S.). Division of Operation and Maintenance Technical

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